

# NET4mPLASTIC PROJECT

## WP2 – Act. 2.2 Communication, dissemination and promotion campaign

### D 2.2.4

Promotional material and green (and fair trade when possible) gadget distribution (EcoBags, USB drive, EcoPencil, Roll-up, poster, Eco block notes Ecoflyers)

August, 2022 - Version Final

<b>Project Acronym</b>	NET4mPLASTIC
<b>Project ID Number</b>	10046722
<b>Project Title</b>	New Technologies for macro and Microplastic Detection and Analysis in the Adriatic Basin
<b>Priority Axis</b>	3
<b>Specific objective</b>	3.3
<b>Work Package Number</b>	2
<b>Work Package Title</b>	Communication Activities
<b>Activity Number</b>	2.2
<b>Activity Title</b>	Communication, dissemination and promotion campaign
<b>Partner in Charge</b>	PP1 – University of Trieste (UNITS)
<b>Partners involved</b>	LP – University of Ferrara (UNIFE)
<b>Status</b>	Final
<b>Distribution</b>	Public

<b>CONTRIBUTING PARTNERS</b>	UNIFE
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Data	Vers	Prep	Resp	Appr	Rev	Comment
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## 1 Introduction

Main activities related to WP2 during the entire Project have been: 1. Start-up activities, 2. Communication, dissemination and promotion campaign, 3. Website, e-forum, public events organization and scientific papers publishing.

The NET4mPLASTIC Project Application Form provided for the Activity 2.2 the following activities.

This activity aims to foster the inclusion and awareness of the main target groups and also of the general public, specific issues of the project and involve monitoring agencies/research groups on the NET4mPLASTIC activities mainly related to monitoring and analyzing methodologies. This activity will use media communication tools like social media network and informative material. Activities and results of WP3, 4 and 5 will be presented during project's events, conference and workshops and all the reports will be available online. This activity will provide at delivering a detailed communication plan (updated regularly) for the organization and implementation of communication-related activities by the alignment of communication objectives with organizational goals. This activity will provide the partnership with information and schedule's details in relation to NET4mPLASTIC project.

At the end of the Project, regarding the communication, dissemination and promotion campaign the Communication Plan has been realized and updated during the entire project (containing information on target groups, communication tools, objectives and communication modalities). A paragraph has been also added for COVID mitigation measurements. For the Media Communication UniTS collected press conferences and articles published in the press and in other media. All PPs supported the distribution of promotional materials (as green as possible), with gadgets like cotton face masks, eco bags, eco blocknotes, t-shirt, roll-up, brochures, magnetic pins, etc...during public events and the communication tours. TV and radio interviews have been performed: the first as project presentation, by Professor Simeoni (UNIFE) on TG Emilia Romagna, followed by a radio interview of Prof. Chiara Schmidt (UniTS) on RADIO Rai Friuli Venezia Giulia and by Nelida Pogacic (Prosoft) on Capaj Cimu Hrvatski Radio and several others (UniTS with radio and TV interviews on their recycling material, RERA for a TV show within the EU Day in Croatia, UNIFE with ArtER on Covid effects on International Project Cooperation. Regarding the social media communication, social pages accompanied the main activities and results during the entire project (Youtube, Instagram, Facebook, Twitter). UniTS shared some statistics on affluence in reaching general public with social pages. In the last few months, UNIFE, in according with UniTS, shared several posts and direct videos on Facebook and Instagram Projects pages, increasing the follower numbers and reaching more public. Several articles appeared on Local and National Newspapers (Il Sole 24 Ore, La Nuova Ferrara, Il Piccolo, UNIFE Official Website, Il Resto del Carlino, Millionaire, La Voce del Popolo), as well as several websites (more than 40). Three communication tours have been organized by UniTS, the first one in Croatia and Italy, the second one in Italy in the Programme Area, the third one in Italy outside the Programme Area.

## 2 PROMOTIONAL MATERIAL

The templates of the main promotional material have been designed in the first period by the Lead Partner together with the WP2 responsible. The templates could be further modified and then they will be shared among the partners. The promotional material will be realized in the beginning of the second period by Partners depending on the needs and requirements. The text has been provided in English for the translation in Italian and Croatian language.

In particular, the templates of the following material have been created:

- template of brochures;
- template of roll-up;
- template of magnetic plate;
- template of T-shirts;

Each Partner printed its own poster and put it in visible place.

In the following paragraphs, the screenshot of the material are provided.

## 2.1 BROCHURES TEMPLATE

**Background**

The **presence of marine litter** is an environmental concern. Marine litter was included in the Marine Strategy Framework Directive (2008/56/EC MSFD) requiring that: **"Properties and quantities of marine litter do not cause harm to the coastal and marine environment"**. Recent EU projects highlighted that plastic is the **most dominant waste** in the marine environment. Various studies demonstrates that microplastics can be uptaken and **accumulated** by living organisms. Moreover, some pollutants related to microplastic can be accumulated and transported along the **food chain**. Nevertheless, **knowledge** about the origin, abundance and distribution of microplastics in marine systems **is still limited**.

**The Project**

The project will improve the use of **innovative technologies** and approaches against plastic marine litter. Micro and macro plastics data will be collected along **coastal and marine areas** of Croatia and Italy. **Alert systems** and **marine drones** will be developed together with potential **recycling systems** and **methodologies** for plastic waste found in such environments. Potential effects on **human health** will also be investigated.

**Project results**

The project results will be:

- analysis of the **state of the art** on environmental and climatological data;
- characterization of issues related to **waste management**;
- characterization of the Micro and Macro Plastic (MP) **sources** (cosmetics, bottles, wastewater, etc.);
- analysis of MP **occurrence** in **water, sediment** and in **shellfish**;
- definition of **best practices** for assessment and management of MP;
- development of a sensor platform to be installed on boats or **marine drones**;
- potential scenarios forecasting of **MP accumulation areas** after storms or river overflows;
- Early Warning System** and GIS database for MP forecasted accumulation areas;
- human health risk assessment**;
- recycling methodologies**

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**Project data**

- PROJECT DURATION  
01/01/2019-30/06/2021
- ERDF  
2.106.844,00 Euro
- TOTAL BUDGET  
2.478.640,00 Euro

**The Partnership**



[www.italy-croatia.eu/netformplastic](http://www.italy-croatia.eu/netformplastic)

**NET4mPLASTIC**

New Technologies for macro and Microplastic Detection and Analysis in the Adriatic Basin

*New technologies against plastic marine pollution*

**Contacts**



European Regional Development Fund

Figure 1: Template for brochures

## 2.2 ROLL-UP TEMPLATE



**NET4mPLASTIC**  
New Technologies for macro and Microplastic Detection and Analysis in the Adriatic Basin

**New technologies against plastic marine pollution**

<b>PROJECT DURATION</b> 2023/09 - 2025/07	<b>DESCRIPTION</b> The project will improve the use of innovative technologies and approaches against plastic marine litter. Micro and macro plastic data will be collected along coastal and marine areas of Croatia and Italy. Alert systems and marine drones will be developed together with recycling systems. Potential effects on human health will also be investigated.
<b>IMP</b> 3.056.840,00 €	
<b>TOTAL BUDGET</b> 3.456.840,00 €	

**RESULTS**  
The project results will be:  
- analysis of the state of the art on environmental and climatological data;  
- characterization of issues related to waste management;  
- characterization of the Micro and Macro Plastic (MMP) sources;  
- analysis of MMP occurrence in water, sediment and in shellfish;  
- definition of best practices for assessment and management of MMP;  
- development of a sensor platform to be installed on boats or marine drones;  
- potential scenarios forecasting of MMP accumulation areas after storms or river overflows;  
- Early Warning System and GIS database for MMP forecasted accumulation areas;  
- analytical tests for human health risk assessment;  
- recycling methodologies.

**PROJECT PARTNERS**










European Regional Development Fund [www.italy-croatia.eu/net4mplastic](http://www.italy-croatia.eu/net4mplastic)

Figure 2: Template for roll-up



## 2.3 MAGNETIC PLATE TEMPLATE



Figure 3: Template for magnetic plate

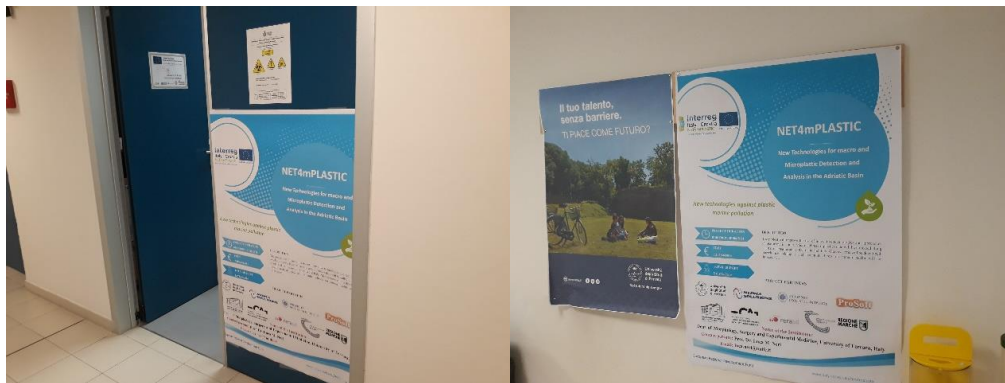
## 2.4 T-SHIRTS TEMPLATE



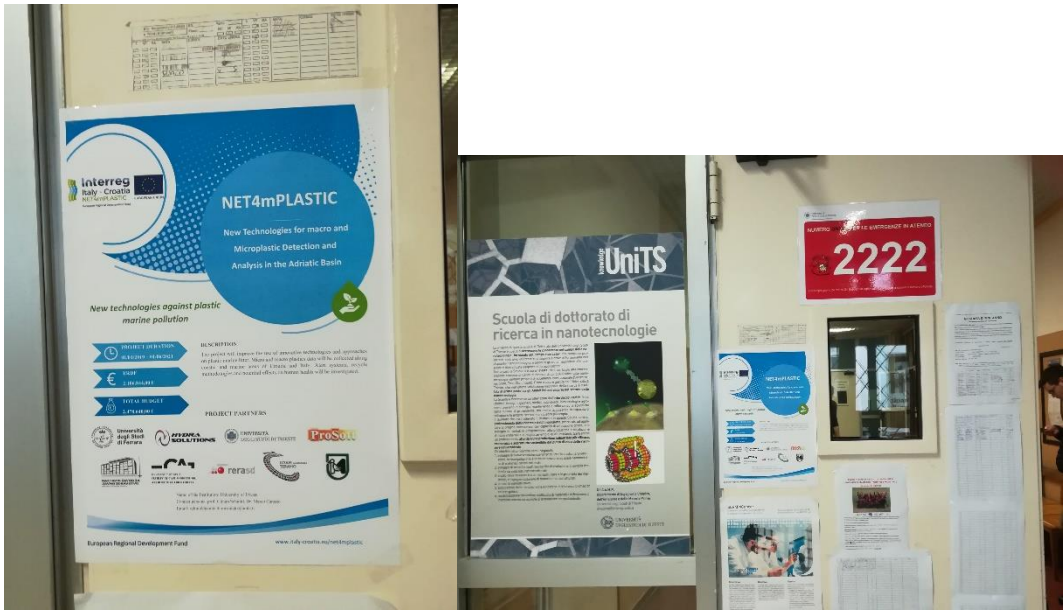
Figure 4: Template for T-shirts

## 2.5 PARTNERS' POSTER

### Lead Partner – University of Ferrara



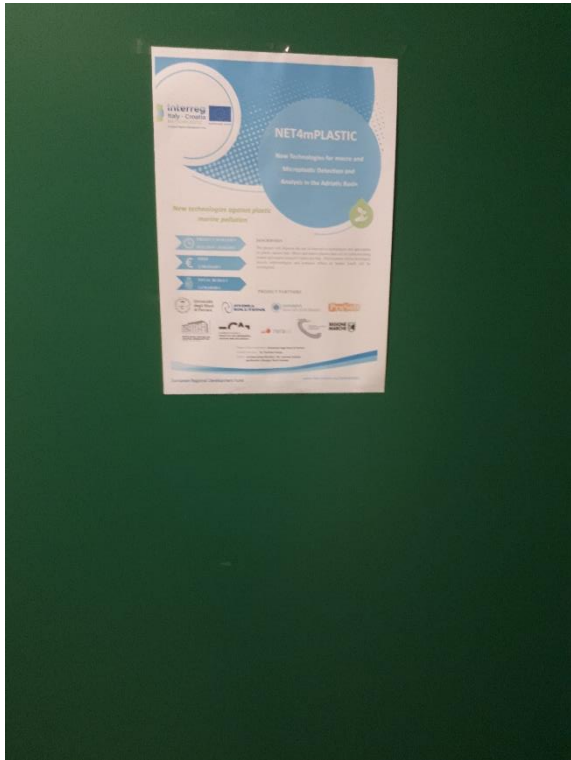
### PP1 – University of Trieste



## PP2 – Marche Region



## PP3 – Hydra Solutions



## PP4 - Prosoft doo



## PP5 - Veterinary Public Health Institute of Abruzzo and Molise Regions At Training Unit (CIFIV – International Centre for Veterinary Training and Information):



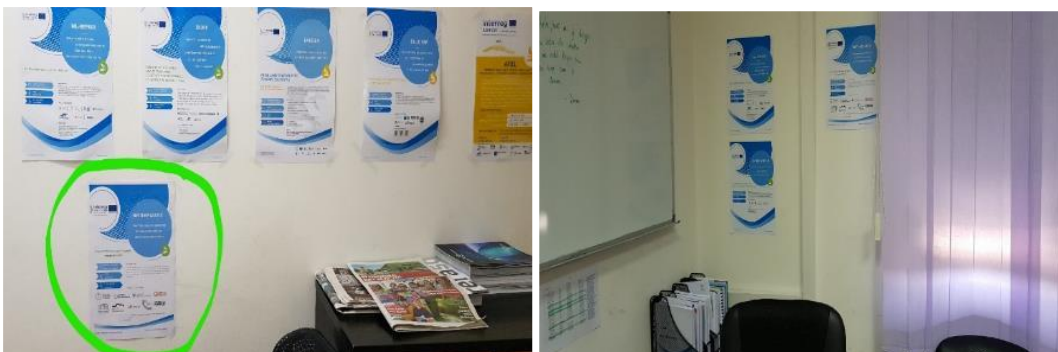
## At Termoli headquartes (Regional Experimental Centre for Fishing and Aquaculture):



PP6 - Teaching Institute for Public Health, Primorje-Gorski Kotar County



PP7 - Public Institution Rera Sd for Coordination and Development of Split Dalmatia County



PP8- University of Split - Faculty of Civil Engineering, Architecture and Geodesy



### 3 PROMOTIONAL MATERIAL

The templates of the main promotional material have been designed in the first period by the Lead Partner together with the WP2 responsible. The templates of brochures was further modified and then shared among the partners. The promotional material will be realized in the second period by Partners depending on the needs and requirements. The text has been provided in English and translated in Italian and Croatian language.

In particular, the following material have been created by the Partnership:

- new template of brochures;
- 100 brochures;
- 60 flyers
- 40 bags, notebooks, pencils, envelops, USB stick
- 60 mugs,
- 4 roll-ups,
- 50 T-shirts,
- 2 magnetic plates;

Each Partner kept its own poster in visible places.

In the following paragraphs, the screenshots of the material are provided.



### 3.1 Brochures template

**Background**

The **presence of marine litter** is an environmental concern. Marine litter was included in the Marine Strategy Framework Directive (2008/56/EC MSFD) requiring that: **"Properties and quantities of marine litter do not cause harm to the coastal and marine environment"**. Recent EU projects highlighted that plastic is **the most dominant waste** in the marine environment. Various studies demonstrates that microplastics can be **uptaken and accumulated** by living organisms. Moreover, some pollutants related to microplastic can be **accumulated and transported along the food chain**. Nevertheless, **knowledge** about the origin, abundance and distribution of microplastics in marine systems **is still limited**.

**The Project**

The project will improve the use of **innovative technologies** and approaches against plastic marine litter. Micro and macro plastics data will be collected along **coastal and marine areas** of Croatia and Italy. **Alert systems and marine drones** will be developed together with potential **recycling systems and methodologies** for plastic waste found in such environments. Potential effects on **human health** will also be investigated.

**Project results**

The project results will be:

- analysis of the **state of the art** on **environmental and climatological data**;
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- characterization of the Micro and Macro Plastic (MP) **sources** (cosmetics, bottles, wastewater, etc.);
- analysis of MP **occurrence** in **water, sediment** and in **shellfish**;
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- Early Warning System** and GIS database for MP forecasted accumulation areas;
- human health risk assessment**;
- recycling methodologies**.



**Project data**

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**Partnership**



[www.italy-croatia.eu/netformplastic](http://www.italy-croatia.eu/netformplastic)

**NET4mPLASTIC**  
New Technologies for macro and Microplastic Detection and Analysis in the Adriatic Basin

*New technologies against plastic marine pollution*

**Contacts**



European Regional Development Fund



European Regional Development Fund



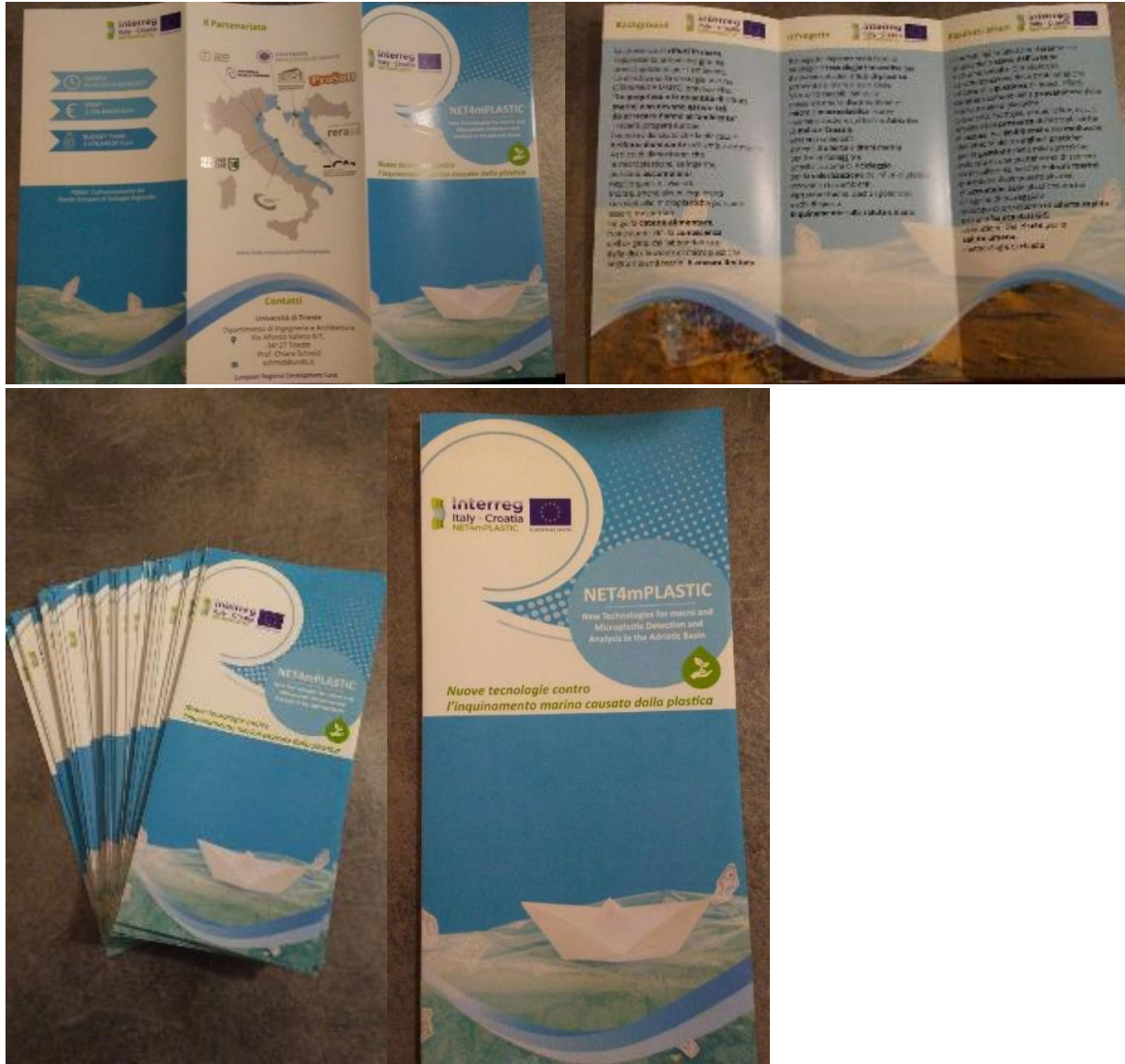


*Figure 5: New Template for brochures*

## 3.2 Promotional material

### 3.2.1 Brochures produced by UNITS

100 brochures produced



### 3.2.2 Flyer-NET4mPLASTIC\_201912

both side printed (produced by PROSOFT doo) 60 copies



### Flyer-NET4mPLASTIC\_201912 - Translation to English:

Object: NET4mPLASTIC Interreg Italy-Croatia project

Dear partner,

Marine litter affects the quality and biodiversity of the marine environment with impacts on fishing, tourism, navigation and health. It is everywhere and the Adriatic Sea is not an exception. But, how does it disperse, where does it accumulate and what is its composition? NET4mPLASTIC Project, which lasts 30 months and is co-financed with 2,106,844 euros by the European Interreg Italy-Croatia Fund, aims to answer some of these questions.

Nine partners from Italy and Croatia are participating in the NET4mPLASTIC project, coordinated by the University of Ferrara. For the duration of the project, data will be collected on the distribution, sources and characteristics of macro and microplastics in the sea, sediment and biota in 2 coastal macro-areas in Italy and 2 in Croatia, thus expanding knowledge about the impact of macro and micro plastics on the environment and human health. The aim of the project is to develop an early warning system and marine drones for the detection and monitoring of waste in the sea, as well as to provide indications for the removal and recycling of plastics.

Further information on the project can be found at <https://www.italy-croatia.eu/web/netformplastic>.

Finally, we invite you to support us by following our Facebook page [www.facebook.com/NET4mPLASTIC](http://www.facebook.com/NET4mPLASTIC) and we give you a NET4mPLASTIC mug as a small reminder of how we can all contribute to reducing plastic waste in the environment by avoiding the use of disposable plastic items.

With best regards, we wish you happy holidays and a new year.

In Rijeka, December 2019

for Prosoft d.o.o.

Aris Grozić, Chairmen of the Board  
Nelida Pogačić, Director

### 3.2.3 Promotional material (bags, notebooks, pens, envelopes, USB stick) produced by UNIST\_FGAG



### 3.2.4 Mugs produced by PROSOFT



### 3.2.5 Roll-up produced by UNIFE-UNITS and FGAG

Roll-up produced by UNIFE



### Roll-up produced by UNITS



### Roll-up produced by UNIST-FGAG





### 3.2.6 T-shirts

T-shirts produced by UNIFE





T-shirts produced by UNITS



3.2.7 Magnetic plate produced by UNITS



## 4 COMMUNICATION MATERIAL

The communication material has been realized in the third period by Partners depending on the needs and requirements.

In particular, the following material have been created:

- 300 brochure in Croatian language (RERA);
- 200 green gadget giveaway packages were produced in May 2020 (UNIST-FGAG):
  - 200 tote-bags
  - 200 flyers
  - 200 fans
  - 200 towels
- 300 facial masks in cotton for COVID19 protection (UNITS)
- template for educational brochure in Italian language (IZSAM)
- 50 printed copies of a Volume analyzing data collected for the activity 3.2 (UNIFE).

Each Partner kept its own poster in visible places.

In the following paragraphs, the screenshots of the material are provided.

## 4.1 Promotional material

### Eco-friendly facial masks for COVID Protection

The template of the facial masks has been defined. The ecofriendly facial masks (handmade in cotton fabric without plastic in the tissue) will be delivered to the general public and to the involved stakeholders during communication events or can be mailed as gadget.

The figures report the template, a sample and the furniture.



### UNIST-FGAG Promotional material



All Photos showing the material of UNITS-FGAG at the link:

<https://drive.google.com/drive/folders/1HCrVvu9RMDDk87FHfYaG0ZRmB407E0Ed?usp=sharing>

## 4.2 Dissemination material

**UNIFE:** Printed copies of the Volume realized for the activity 3.2. The text is upload on the website as a contribution for the deliverable of the activity.



### DELIVERABLES

Download Net4mplastic documental deliverables in this section.

**ACTIVITY 3.2**

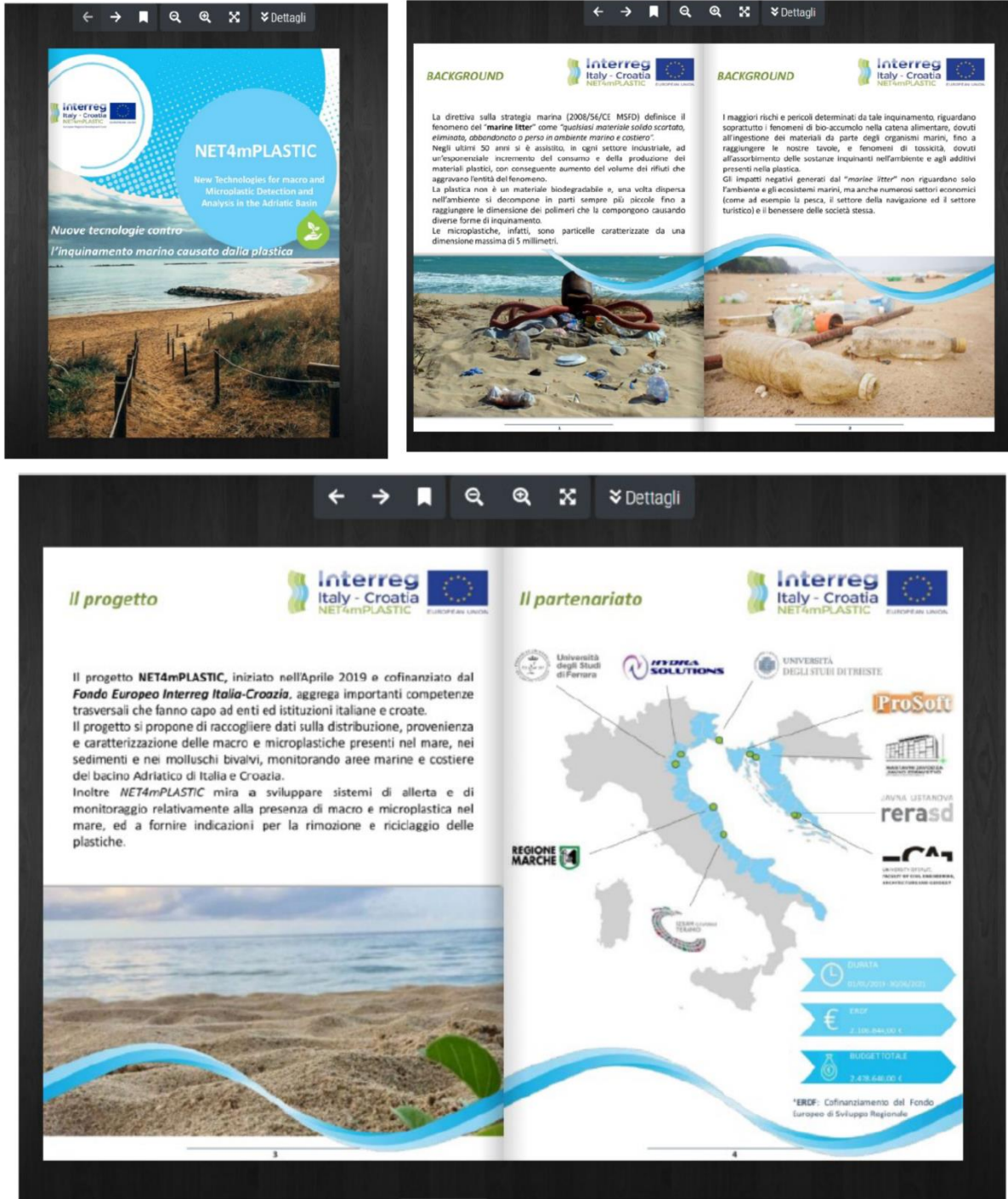
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New technologies for macro and micro-plastic detection and analysis in the adriatic basin PDF (3.13 Mb) [DETAIL](#) [VIEW](#)

PUBLISHED ON 13/08/2020

[https://www.italy-croatia.eu/documents/293975/0/Attivit%C3%A0+3.2+NET4mPLASTIC\\_DEF.pdf/cbcc8f0b-8c7d-d080-24d8-03418e4589e0?t=1597342413422](https://www.italy-croatia.eu/documents/293975/0/Attivit%C3%A0+3.2+NET4mPLASTIC_DEF.pdf/cbcc8f0b-8c7d-d080-24d8-03418e4589e0?t=1597342413422)

IZSAM Digital brochure draft





↳ Dettagli




**I primi risultati del Centro  
 ricerche Ecosistemi  
 Marini e Pesca – IZSAM**

Ad oggi, relativamente alla parte di monitoraggio quali-quantitativo delle microplastiche nei molluschi bivalvi, sono stati realizzati campionamenti in due siti del litorale italiano del bacino dell'Adriatico (**Sacca di Goro e Pescara**) con un rilevamento in Autunno e uno all'inizio dell'Estate.

Sono stati prelevati mitili della specie **Mytilus galloprovincialis** di due allevamenti che risentono rispettivamente dell'inquinamento dei fiumi Po e Pescara.

Lo schema di campionamento utilizzato ha previsto la creazione di un campione globale composto da 3 campioni elementari prelevati a tre diversi livelli di profondità (massima, intermedia e a 50 cm dalla superficie)

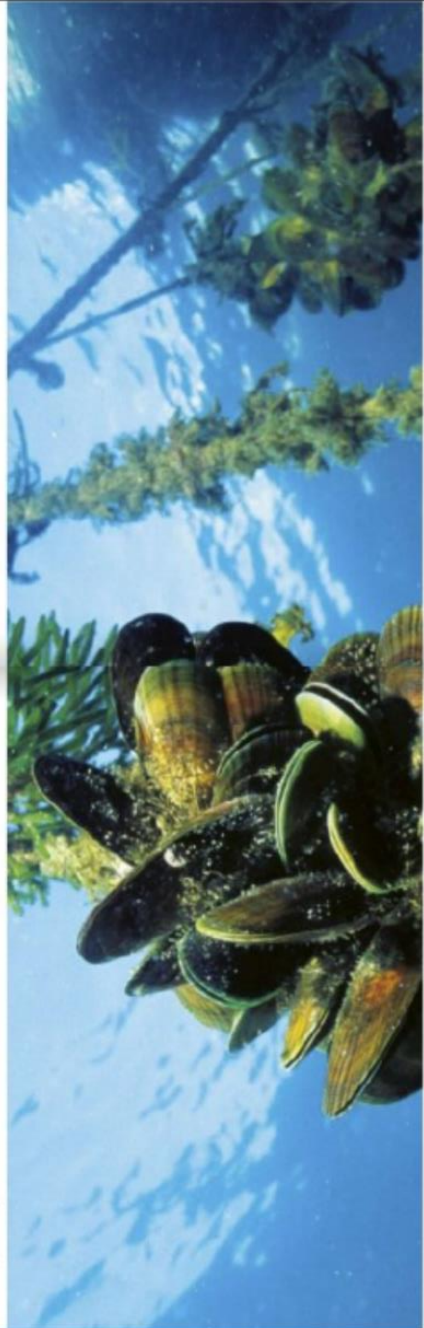

**I primi risultati del Centro  
 ricerche Ecosistemi  
 Marini e Pesca – IZSAM**

Il range dimensionale delle particelle di microplastica ritrovate all'interno dei molluschi bivalvi analizzati varia da 1 a 3 mm.

I polimeri maggiormente ritrovati (più del 70%) sono i **filamenti** per lo più di dimensioni comprese tra 1 e 2 mm.

È attualmente in corso il riconoscimento di tutti i polimeri ritrovati tramite metodi di spettroscopia ad infrarossi.

Inoltre i risultati ottenuti ad oggi hanno permesso di evidenziare come abbiano una notevole incidenza fattori come gli eventi meteorici invernali che tendono a trasportare ed a far confluire il **marine litter** verso il bacino.



← → ↶ ↷ 🔍 📄

📄 Dettagli

**Per concludere ...**



I dati raccolti durante il progetto forniranno una maggiore conoscenza relativamente ai rifiuti plastici sul bacino del mar Adriatico supportando così la valutazione dell'impatto di tali contaminanti sull'ecosistema marino.

Resta necessario attuare azioni volte a **migliorare la gestione dei rifiuti** legati alle attività di pesca e acquacoltura, avviare **iniziative di sensibilizzazione** per aumentare la conoscenza del problema e favorire l'educazione del pubblico e degli operatori economici alla prevenzione e contrasto del *marine litter*.

**Contatti**




- Nadia Barile - Responsabile scientifico – [n.barile@izs.it](mailto:n.barile@izs.it)
- Sara Recchi - Responsabile comunicazione – [s.recchi@izs.it](mailto:s.recchi@izs.it)

**FOLLOW US**

<https://www.italy-croatia.eu/web/netformplastic/>



NET4mPLASTIC  
Interreg IT-HR



NET4mPLASTIC



RERA brochures presented at WATERCARE conference. 300 printed brochure in Croatian language



All Photos showing the material of UNITS-FGAG at the link:

<https://drive.google.com/drive/folders/1HCrRvu9RMDDk87FHFYaG0ZRmB4O7E0Ed?usp=sharing>

## 5 COMMUNICATION MATERIAL

In this period, the material produced in previous periods has been distributed to the reached stakeholders (see video on Project YouTube and FB).

Moreover, as the pandemic situation limited the face-to-face meetings, material was produced for online communication and event promotion.

In particular, three flyers, for promoting three webinars, have been designed by UNITS and translated in English and Italian. They were posted on social media (twitter, Instagram and FB) and website in order to promote the events and the participation of stakeholders. The flyers contain the link to the official website for the participants' subscriptions. The files have been produced both in .pdf and in .jpeg.

IZSAM designed a digital brochure describing "New technology against marine pollution caused by microplastics" with analyses' preliminary results on microplastics quantification in mussels of Italian's macro-areas. (date 02/09/2020). It was published on FB and on the official website and was sent to IZSAM stakeholders.

Each Partner kept its own poster in visible places.

In the following paragraphs, the screenshots of the material are provided.

Flayer of the three webinars. English and Italian version.



### ORDER OF ENGINEERS OF THE PROVINCE OF ROVIGO

in collaboration with **NET4MPLASTIC PROJECT** is pleased to invite you to the seminar

### **NEW FRONTIERS FOR COASTAL MONITORING**

that will be held on 03/12/2020 - 14.30 - 17.30 (worth 3 CFP for Engineers)

#### PROGRAM

Greetings, attendance registration

- 1- Dr. Corinne Corbau. University of Ferrara. Net4mplastic PM. Project introduction. The coastal marine litter problem: monitoring methods.
  - 2- Prof. Umberto Simeoni. University of Ferrara. The effects of anthropogenic impact and climate change on coastal evolution.
  - 3- Prof. Alberto Pellegrinelli. University of Ferrara. Measurement and monitoring of the local mean sea level.
  - 4- Dr. Elena Zambello. University collaborator. The use of drones in the coastal areas.
  - 5- Dr. Francesco Falcieri. CNR-ISMAR. Numerical simulations of microplastic dispersion and accumulation in the Adriatic Sea.
  - 6- Mr. Giovanni Cecconi. Wigwam International Climate Change Network. Transport and replacement of water in the lagoon and coastal areas: morphological transformations and mobile barriers.
  - 7- Mr. Daniele Calore. Hydra Solutions Srl. Man-assisted and autonomous instrumentation for environmental and marine monitoring.
  - 8- Mr. Guido Selvi. Veneto Region. Monitoring of evolutionary trends for the identification of defense strategies.
- Closing and debate.

Chairmen: Mr. Sandro Bortolotto, Dr. Elena Zambello (Councillors of the Engineers Order of the Province of Rovigo)

[Website](#)  
[Facebook](#)

[Link to subscribe](#)

European Regional Development Fund

CONSIGLIO NAZIONALE  
DEGLI INGEGNERI



Professional Order of Engineers of the  
Province of Rovigo



#### ORDER OF ENGINEERS OF THE PROVINCE OF ROVIGO

in collaboration with **NET4MPLASTIC PROJECT** is pleased to invite you to the seminar

#### **SUSTAINABILITY, CIRCULAR ECONOMY AND ACTIONS ON POST-CONSUMER MATERIALS**

that will be held on 10/12/2020 - 14.30 - 17.30 (worth 3 CFP for Engineers)

#### PROGRAM

Greetings, attendance registration

1- Dr. Luca Cozzarini. University of Trieste. Plastic and its degradation.

2- Prof. Paolo Bevilacqua. University of Trieste. Management of "non-recyclable" plastic waste: technology and legislation.

3- Dr. Marco Caniato. Free University of Bozen. New opportunities for the recycling of non-recyclable plastic waste

4- Prof. Umberto Simeoni. University of Ferrara. Circular economy and bioreef to improve environmental aspects of coastal areas.

5- Mr. Giovanni Cecconi. Wigwam International Climate Change Network. Methods of capturing plastic material in lagoon and rivers and the possibility of reuse in Building with Nature.

6- Mr. Meuccio Berselli. Po River Basin Authority. Po river and microplastics.

7- Mr. Massimo Sbriscia/Mr. Angelo Recchi. Marche Region. The Marche Region experience: regional provisions to encourage the reduction of plastic waste in the sea and on the beaches (L.R. n.33/2018)

8 - Prof. Andrea Contin/Prof. Alfredo Liverani. University of Bologna. Robotized actions and pyrolysis micro-plant in Ravenna. INTERREG MARLESS Project.

Closing and debate.

Chairmen: Dr. Marco Caniato, Researcher at the Free University of Bozen  
Dr. Elena Zambello, Councillor of the Engineers Order of the Province of Rovigo)

[Link to subscribe](#)

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European Regional Development Fund

 **CONSIGLIO NAZIONALE  
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Professional Order of Engineers of the  
Province of Rovigo



**ORDER OF ENGINEERS OF THE PROVINCE OF ROVIGO**  
in collaboration with **NET4MPLASTIC PROJECT** is pleased to invite you to the seminar

**MICRO-POLLUTANTS AND MICROPLASTICS IN WATER:  
RISKS FOR ENVIRONMENT AND HEALTH**  
that will be held on 18/12/2020 - 14.00 - 17.00 (worth 3 CFP for Engineers)

**PROGRAM**

Greetings, attendance registration

- 1- Prof. Carmela Vaccaro. University of Ferrara. Geochemical analysis on water-plastic interactions.
- 2- Dr. Nadia Barile. Veterinary Public Health Institute of Abruzzo and Molise Regions "G. Caporale". Mussels as useful indicators of microplastic pollution.
- 3- Dr. Sara Recchi/ Dr. Federica Pizzurro. Veterinary Public Health Institute of Abruzzo and Molise Regions "G. Caporale". Microplastic purification in bivalve molluscs.
- 4- Dr. Gianfranco Diletti. Veterinary Public Health Institute of Abruzzo and Molise Regions "G. Caporale". Microplastics carrier of chemical contaminants in bivalve molluscs.
- 5- Prof. Luca Maria Neri/Dr. Ilaria Conti. University of Ferrara. Microplastics and their possible effects on human health.
- 6- Prof. Sergio Gullini. University of Ferrara. Plastic or microplastic and digestive system.

Closing and debate

Moderators: Prof.ssa Carmela Vaccaro, Scientific manager of Net4mplastic Project  
Dr. Elena Zambello, Councillor of the Order of Engineers of the Province of Rovigo

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Professional Order of Engineers of the  
Province of Rovigo



### ORDINE DEGLI INGEGNERI DELLA PROVINCIA DI ROVIGO

in collaborazione con **PROGETTO NET4MPLASTIC** ha il piacere di invitarvi al seminario

### NUOVE FRONTIERE PER IL MONITORAGGIO DELLE COSTE

che si terrà il giorno **03/12/2020** dalle ore **14.30** alle ore **17.30** (3 CFP per Ingegneri)

#### PROGRAMMA

Saluti, registrazioni

- 1- Dott.ssa Corinne Corbau. Università di Ferrara. Net4mplastic PM. Introduzione progetto. Il problema dei rifiuti in ambito costiero: metodi di monitoraggio.
- 2- Prof. Umberto Simeoni. Università di Ferrara. Gli effetti dell'impatto antropico e dei cambiamenti climatici sull'evoluzione costiera.
- 3- Prof. Alberto Pellegrinelli. Università di Ferrara. Misura e monitoraggio del livello medio mare locale.
- 4- Ing. Elena Zambello. Collaboratrice dell'Università. L'impiego dei droni in ambito costiero.
- 5- Dott. Francesco Falcieri. CNR ISMAR. Simulazioni numeriche di dispersione e accumulo microplastico nel mare adriatico.
- 6- Ing. Giovanni Cecconi. Wigwam International Climate Change Network. Trasporto e ricambio delle acque in ambito lagunare e costiero: trasformazioni morfologiche ed opere mobili.
- 7- Ing. Daniele Calore. Hydra Solutions Srl. Strumentazione man-assisted e autonoma per il monitoraggio ambientale e marino.
- 8- Ing. Guido Selvi. Regione Veneto. Il monitoraggio dei trend evolutivi per l'individuazione delle strategie di difesa.

Chiusura e dibattito

Moderatori: Ing. Sandro Bortolotto e Ing. Elena Zambello (Consiglieri Ordine Ingegneri Provincia di Rovigo)

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## **SOSTENIBILITÀ, ECONOMIA CIRCOLARE ED AZIONI SUI MATERIALI POST-CONSUMO**

che si terrà il giorno 10/12/2020 dalle ore 14.30 alle ore 17.30 (3 CFP per Ingegneri)

### **PROGRAMMA**

Saluti, registrazioni

- 1- Ing. Luca Cozzarini. Università di Trieste. La plastica e il suo degrado.
  - 2- Prof. Ing. Paolo Bevilacqua. Università di Trieste. Gestione dei rifiuti plastici "non riciclabili": tecnologia e legislazione.
  - 3- Ing. Marco Caniato. Libera Università di Bolzano. Nuove opportunità per il riciclo di rifiuti plastici non riciclabili
  - 4- Ing. Massimo Sbriscia/Dott. Angelo Recchi. Regione Marche. L'esperienza della Regione Marche: disposizioni regionali per favorire la riduzione in mare e sulle spiagge dei rifiuti plastici (L.R. n.33/2018)
  - 5- Dott. Meuccio Berselli. Autorità di Bacino del fiume Po. Il fiume Po e le microplastiche
  - 6- Ing. Giovanni Cecconi. Wigwam International Climate Change Network. Metodi di cattura del materiale plastico in laguna e nei fiumi e possibilità di riutilizzo nel Building with Nature
  - 7- Prof. Umberto Simeoni. Università di Ferrara. Economia circolare e bioreef per migliorare aspetti ambientali delle zone costiere
  - 8 - Prof. Andrea Contin/Prof. Ing. Alfredo Liverani. Università di Bologna. Azioni Robotizzate e micro-impianto di pirolisi a Ravenna. Progetto INTERREG MARLESS
- Chiusura e dibattito

Moderatori: Ing. Marco Caniato, Ricercatore Libera Università di Bolzano  
Ing. Elena Zambello, Consigliere Ordine Ingegneri Provincia di Rovigo

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**MICROINQUINANTI E MICROPLASTICA NELLE ACQUE:  
RISCHI PER L'AMBIENTE E PER LA SALUTE**

che si terrà il giorno **18/12/2020** dalle ore **14.00** alle ore **17.00** (3 CFP per Ingegneri)

**PROGRAMMA**

Saluti, registrazioni

- 1- Prof.ssa Carmela Vaccaro. Università di Ferrara. Analisi geochimiche su interazioni acqua-plastica.
- 2- Dott.ssa Nadia Barile. Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale". I mitili utili indicatori dell'inquinamento da microplastiche.
- 3- Dott.ssa Sara Recchi/Dott.ssa Federica Pizzurro. Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale". La depurazione da microplastiche nei molluschi bivalvi.
- 4- Dott. Gianfranco Diletti. Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale". Microplastiche carrier di contaminanti chimici nei molluschi bivalvi.
- 5- Prof. Luca Maria Neri/Dott.ssa Ilaria Conti. Università di Ferrara. Le Microplastiche e i possibili effetti sulla salute umana.
- 6- Dott. Sergio Gullini. Università di Ferrara. Plastica o microplastica e apparato digerente.

Chiusura e dibattito

Moderatori: Prof.ssa Carmela Vaccaro, Responsabile Scientifico del Progetto Net4mplastic  
Ing. Elena Zambello, Consigliere dell'Ordine degli Ingegneri della Provincia di Rovigo

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## IZSAM digital brochure

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**NET4mPLASTIC**  
New Technologies for macro and Microplastic Detection and Analysis in the Adriatic Basin

*Nuove tecnologie contro l'inquinamento marino causato dalla plastica*

**BACKGROUND**

La direttiva sulla strategia marina (2008/56/CE MSFD) definisce il fenomeno del "marine litter" come "qualsiasi materiale solido scartato, eliminato, abbandonato o perso in ambiente marino e costiero". Negli ultimi 50 anni si è assistito, in ogni settore industriale, ad un'esplosivo incremento del consumo e della produzione dei materiali plastici, con conseguente aumento del volume dei rifiuti che aggravano l'entità del fenomeno. La plastica non è un materiale biodegradabile e, una volta dispersa nell'ambiente si decompone in parti sempre più piccole fino a raggiungere le dimensioni dei polimeri che la compongono causando diverse forme di inquinamento. Le microplastiche, infatti, sono particelle caratterizzate da una dimensione massima di 5 millimetri.

**BACKGROUND**

I maggiori rischi e pericoli determinati da tale inquinamento, riguardano soprattutto i fenomeni di bio-accumulo nella catena alimentare, dovuti all'ingestione dei materiali da parte degli organismi marini, fino a raggiungere le nostre tavole, e fenomeni di tossicità, dovuti all'assorbimento delle sostanze inquinanti nell'ambiente e agli additivi presenti nella plastica. Gli impatti negativi generati dal "marine litter" non riguardano solo l'ambiente e gli ecosistemi marini, ma anche numerosi settori economici (come ad esempio la pesca, il settore della navigazione ed il settore turistico) e il benessere delle società stesse.

**Il progetto**

Il progetto NET4mPLASTIC, iniziato nell'Aprile 2019 e cofinanziato dal Fondo Europeo Interreg Italia-Croazia, aggrega importanti competenze trasversali che fanno capo ad enti ed istituzioni italiane e croate. Il progetto si propone di raccogliere dati sulla distribuzione, provenienza e caratterizzazione delle macro e microplastiche presenti nelle acque marine, nei sedimenti e nei molluschi bivalvi, monitorando aree marine-costiere del bacino Adriatico di Italia e Croazia. Saranno effettuati studi anche sulla possibile correlazione tra la presenza di microplastiche ed altri contaminanti quali diossine, PCB, IPA e metalli pesanti. Inoltre NET4mPLASTIC mira a sviluppare sistemi di allerta e di monitoraggio relativamente alla presenza di macro e microplastica nel mare, ed a fornire indicazioni per la rimozione e riciclaggio delle plastiche.

**Il partenariato**



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REGIONE MARCHE

**I primi risultati del Centro ricerche Ecosistemi Marini e Pesca - IZSAM**

Ad oggi, relativamente alla parte di monitoraggio quali-quantitativo delle microplastiche nei molluschi bivalvi, sono stati realizzati i campionamenti in due siti italiani del bacino dell'Adriatico (Sacca di Goro e Pescara) con un rilevamento nell'autunno 2019 e uno all'inizio dell'estate 2020. Sono stati prelevati mitili della specie *Mytilus galloprovincialis* di due allevamenti che risentono rispettivamente dell'inquinamento dei fiumi Po e Pescara. Lo schema di campionamento utilizzato ha previsto la creazione di un campione globale composto da 3 campioni elementari prelevati a tre diversi livelli di profondità (massima, intermedia e a 50 cm dalla superficie).

**I primi risultati del Centro ricerche Ecosistemi Marini e Pesca - IZSAM**

Il range dimensionale delle particelle di microplastica ritrovate all'interno dei molluschi bivalvi analizzati varia da 1 a 3 mm. I polimeri maggiormente ritrovati (più del 70%) sono i **filamenti**, per lo più di dimensioni comprese tra 1 e 2 mm. È attualmente in corso il riconoscimento di tutti i polimeri ritrovati tramite metodi di spettroscopia Raman. Inoltre i risultati ottenuti ad oggi hanno permesso di evidenziare come abbiano una notevole incidenza fattori come eventi meteorologici di carattere eccezionale, quali grandinate, intensi temporali e forti raffiche di vento, che tendono a trasportare ed a far confluire il **marine litter** verso il bacino.

**Per concludere ...**

I dati raccolti durante il progetto forniranno una maggiore conoscenza relativamente ai rifiuti plastici sul bacino del mar Adriatico supportando così la valutazione dell'impatto di tali contaminanti sull'ecosistema marino. Resta necessario attuare azioni volte a **migliorare la gestione dei rifiuti** legati alle attività di pesca e acquacoltura, avviare **iniziative di sensibilizzazione** per aumentare la conoscenza del problema e favorire l'educazione del pubblico e degli operatori economici alla prevenzione e contrasto del **marine litter**.

**Contatti**

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NET4mPLASTIC Interreg IT-CR



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MAREMARE (FONDO EUROPEO INTERREG ITALIA-CROAZIA)

FROM SHARED RESOURCES TO JOINT SOLUTIONS

## 6 COMMUNICATION MATERIAL

As the pandemic situation limited travel and face-to-face meetings, material was produced for online communication and event promotion. In particular (see D2.3.1):

- Official project website has been updated with webinars' video and events (PP1)
- New contents have been upload on the social network of the project: Facebook, Instagram, Youtube: (LP and PP0 with collaborations of PP4, PP6 and PP7 for croatian translation)
- PP2 (Regione Marche) published press releases on 2 pages of the Marche Region website:
- PP4 (Prosoft d.o.o.) published news on Project participation to the online events MARLESS High Level Event "A Clean Adriatic Sea for future generations" on Prosoft website:
- PP5 (IZSAM) published news on experimental activities of "Laboratory uptake and clearance experiment on mussels" on IZSAM's website.

## 7 COMMUNICATION MATERIAL

Promotional material was produced and distributed during face to face activities:

- notebooks, flyers, pens, shared by LP and PP3 during Sealogy 2021 Conference (“Innovative integrated system for microplastic detection in the Adriatic Sea”) held in Ferrara, 18-20 November 2021
- cotton face masks and flyers distributed by PP1 during the Communication Tour in summer 2021
- a poster (100x70cm) was made by PP4 for the needs of the VI physical partnership meeting in Rijeka
- Blocks and maps with the project logo were procured by PP4 for distribution to partners during the VI partnership meeting in Rijeka and future events
- Smart bracelets with the project logo were procured by PP4 for distribution to partners, stakeholders and journalists during project events. The part was handed over during the VI partnership meeting in Rijeka
- Promotional materials of the NET4mPLASTIC project were distributed by PP8 among different stakeholders during Interreg Med Plastic Busters MPAs project workshop





